			-XI
	Application No.	Applicant(s)	7110
N=4: =	10/664,659	MARUYAMA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Thinh T Nguyen	2818	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not include n will be mailed in due o	d course. THIS
1. \boxtimes This communication is responsive to <u>10/27/04</u> .			
2. X The allowed claim(s) is/are <u>1,2,4-12 and 18.</u>			
3. $igotimes$ The drawings filed on <u>17 September 2003</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority una All b	e been received. e been received in Application No cuments have been received in this of this communication to file a reply lENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara est be submitted. Son's Patent Drawing Review (PTO s Amendment / Comment or in the Co84(c)) should be written on the drawin the header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL I	national stage application of the following with the requirement of the complying with the requirement of the complying with the requirement of the complex	uirements OTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Statema 9 Other Dazid Nelms Supervisory Patent Examiner Technology Center 2800	(PTO-413), te ment/Comment	·

Application/Control Number: 10/664,659 Page 2

Art Unit: 2818

DETAILED ACTION

Specification

1. The specification has been checked to the extent necessary to determine the presence of

all possible minor errors. However, the applicant cooperation is requested in correcting any

errors of which the applicant may become aware in the specification.

2. Claims 1-2,4-7 are allowed. Since claim1 is allowed and is generic to withdrawn claims

8-12,18; claims 8-12,18 are also allowed in addition to claims 1-2,4-7.

Reason for allowance

3. Claims 1-2,4-12,18 are allowed The following is an examiner's statement of reason for

allowance: Claims 1-2,4-12,18 because none of the references of record teaches or suggests the

claimed SEMICONDUCTOR LIGHT EMITTING DEVICE HAVING QUANTUM WELL

LAYER SANDWICHED BETWEEN CARRIER CONFINEMENT LAYERS having the

limitations:

-- " wherein a composition of the second semiconductor material, a composition

of the third semiconductor materials material and a thickness of the quantum well layer

are set such that a difference of at least 100 meV exists between an energy level of the

Art Unit: 2818

carrier confinement layers at a conduction band lower end and a ground level of an electron in the quantum well layer; "--

and all other limitations as recited in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d) which papers have been placed of record in the file.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Kuroda et al (US patent 4,819,036) disclose a semiconductor device.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the

Application/Control Number: 10/664,659

Art Unit: 2818

Page 4

organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen

Art unit 2818

David Nelms
Supervisory Patent Examiner
Technology Center 2800